

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
29 March 2001 (29.03.2001)

PCT

(10) International Publication Number
WO 01/22783 A2(51) International Patent Classification⁷: **H05H**James, W. [US/US]; 43530 Middle Ridge Road, Lorain,
OH 44053 (US). BORSUK, James, M. [US/US]; 30848
Lytham Circle, Westlake, OH 44145 (US).(21) International Application Number: **PCT/US00/25282**(22) International Filing Date:
15 September 2000 (15.09.2000)(74) Agents: **BRINKMAN, David, W.** et al.; Wood, Herron &
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(US).

(25) Filing Language: English

(26) Publication Language: English

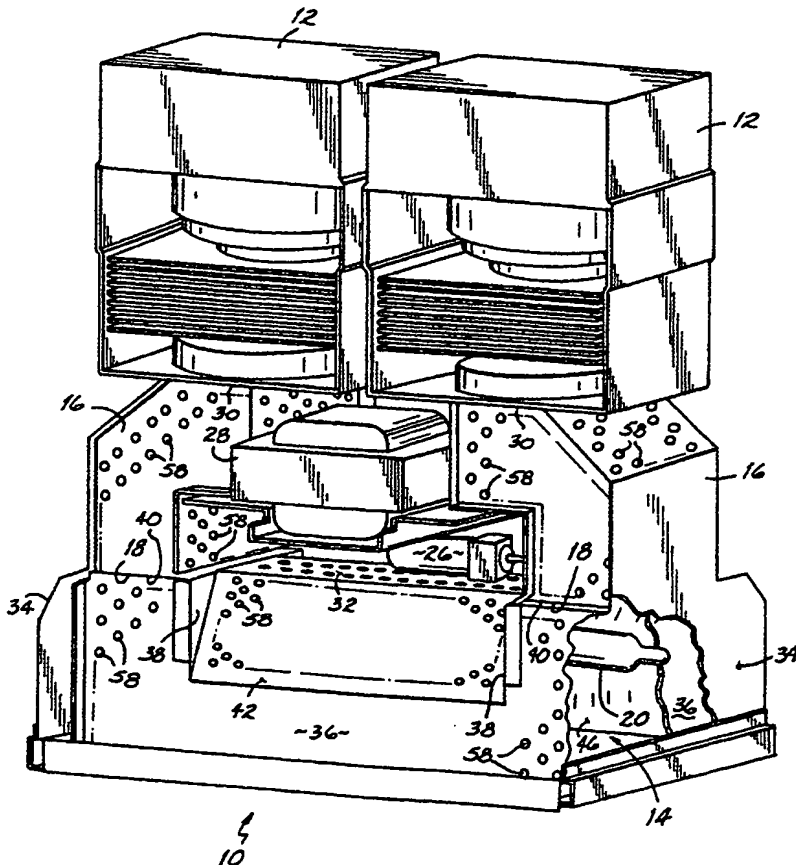
(30) Priority Data:
60/155,028 20 September 1999 (20.09.1999) US(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ,
DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,
NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.(71) Applicant (*for all designated States except US*): **NORD-
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Westlake, OH 44145 (US).(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European

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[Continued on next page]

(54) Title: APPARATUS AND METHOD FOR GENERATING ULTRAVIOLET RADIATION



(57) Abstract: An apparatus (10) for generating ultraviolet radiation includes a pair of magnetrons (12) coupled to a longitudinally extending microwave chamber (14) for generating standing microwave energy waves within the chamber (14). Microwave energy from the magnetrons (12) is directly coupled to the microwave chamber (14) without the use of coupling slots, antennas or other coupling structures. A longitudinally extending electrodeless plasma bulb (20) is mounted within the microwave chamber (14) and is operable to emit ultraviolet radiation (24) in response to excitation by the microwave energy generated by the pair of magnetrons (12). The microwave chamber (14) includes a pair of longitudinally extending tuning walls (42) positioned on opposite sides of the plasma lamp bulb (20) and capable of overlapping the standing microwave energy waves generally along the longitudinal length of the plasma bulb (20).

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